

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (currently amended) A junction lens device made by joining a first lens having a first refractive index and a second lens having a second refractive index using an adhesive having a third refractive index that is closer to the second refractive index than the first refractive index,

wherein a coating layer ~~for index matching~~ having an index of refraction between the first refractive index and the third refractive index is formed on a surface of the first lens and wherein the adhesive is disposed between the coating layer and the second lens to reduce a reflection ratio on a junction surface.

2. (previously presented) The junction lens device as claimed in claim 1, wherein the coating layer has a refractive index selected such that a reflection ratio on the junction surface with respect to a visible light ray is not more than about 0.2%.

3. (previously presented) The junction lens device as claimed in claim 1, wherein a difference in refractive index between the first refractive index and the second refractive index is not less than about 0.15.

4. (canceled)

5. (canceled)

6. (currently amended) A zoom lens optical system including at least one junction lens device made by joining a first lens having a first refractive index and a second lens having a second refractive index using an adhesive having a third refractive index that is closer to the second refractive index than the first refractive index,

wherein in the junction lens device a coating layer ~~for index matching~~ having an index of refraction between the first refractive index and the third refractive index is formed on a surface of the first lens and wherein the adhesive is disposed between the coating layer and the second lens to reduce a reflection ratio on a junction surface.

7. (previously presented) The zoom lens optical system as claimed in claim 6, wherein the coating layer has a refractive index selected such that a reflection ratio on the junction surface with respect to a visible light ray is not more than about 0.2%.

8. (previously presented) The zoom lens optical system as claimed in claim 6, wherein a difference in refractive index between the first refractive index and the second refractive index is not less than about 0.15.

9. (original) The zoom lens optical system as claimed in claim 6, further comprising a front lens for receiving information from an object, a zoom lens performing a zooming function, and a focus lens for forming an image, wherein the junction lens device is used for at least one of the front lens, the zoom lens, and the focus lens.

10. (currently amended) A zoom lens optical system including at least one junction lens device made by joining a first lens having a first refractive index and a second lens having a second refractive index using an adhesive having a third refractive index that is closer to the second refractive index than the first refractive index,

wherein in the junction lens device a coating layer having an index of refraction between the first refractive index and the third refractive index is formed on a surface of the first lens and wherein the [the] adhesive is disposed between the coating layer and the second lens so that a reflection ratio on a junction surface with respect to a visible light ray is not more than about 0.2%;

wherein a difference in refractive index between the first refractive index and the second refractive index is not less than about 0.15.

11. (canceled)

12 (original) The zoom lens optical system as claimed in claim 10, further comprising a front lens for receiving information from an object, a zoom lens performing a zooming function, and a focus lens for forming an image, wherein the junction lens device is used for at least one of the front lens, the zoom lens, and the focus lens.

13. (currently amended) A camera including a zoom lens optical system, wherein the zoom lens optical system comprises at least one junction lens device made by joining a first lens having a first refractive index and a second lens having a second refractive index using an adhesive having a third refractive index that is closer to the second refractive index than the first refractive index and, in the junction lens device, a coating layer ~~for index matching~~ having an index of refraction between the first refractive index and the third refractive index is formed on a surface of the first lens and wherein the adhesive is disposed between the coating layer and the second lens to reduce a reflection ratio on a junction surface.

14. (previously presented) The camera as claimed in claim 13, wherein the coating layer has a refractive index selected such that a reflection ratio on the junction surface with respect to a visible light ray is not more than about 0.2%.

15. (previously presented) The camera as claimed in claim 13, wherein a difference in refractive index between the first refractive index and the second refractive index is not less than about 0.15.

16. (original) The camera as claimed in claim 13, wherein the zoom lens optical system further comprises a front lens for receiving information from an object,

a zoom lens for forming an image, and a focus lens performing a focusing function, and the junction lens device is used for at least one of the front lens, the zoom lens, and the focus lens.

17. (currently amended) A camera including a zoom lens optical system, wherein the zoom lens optical system comprises at least one junction lens device made by joining a first lens having a first refractive index and a second lens having a second refractive index using an adhesive having a third refractive index that is closer to the second refractive index than the first refractive index and, in the junction lens device, a coating layer having an index of refraction between the first refractive index and the third refractive index is formed on a surface of the first lens and wherein the adhesive is disposed between the coating layer and the second lens so that a reflection ratio on a junction surface with respect to a visible light ray is not more than about 0.2%;

wherein a difference in refractive index between the first refractive index and the second refractive index is not less than about 0.15.

18. (canceled)

19. (original) The camera as claimed in claim 17, wherein the zoom lens optical system further comprises a front lens for receiving information from an object, a zoom lens performing a zooming function, and a focus lens for forming an image, and the junction lens device is used for at least one of the front lens, the zoom lens, and the focus lens.

20. (previously presented) A method of manufacturing a junction lens device comprising the steps of:

forming a coating layer on a first lens having a first refractive index; and

joining said first lens to a second lens having a second refractive index with an adhesive disposed between said coating layer and said second lens;

wherein said adhesive has a refractive index closer to the second refractive index than said first refractive index, and said coating layer has a refractive index between the first refractive index and the refractive index of the adhesive.

21. (previously presented) The method of claim 20, wherein said adhesive has a refractive index substantially similar to the second refractive index.

22. (canceled)

23. (previously presented) The method of claim 20, wherein the refractive index of the coating layer is substantially equal to the square root of the product of the refractive index of the adhesive and the first refractive index.

24. (previously presented) A junction lens device manufactured using the method of claim 20.